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TITLE: PUMPING DEVICE FOR ABRASIVE OR AGGRESSIVE SLURRIES

PUBN-DATE: March 15, 1990

INVENTOR-INFORMATION:

NAME	COUNTRY
OGNIBENE, IVO	N/A

INT-CL (IPC): F04B043/06, F04B015/00

ABSTRACT:

PURPOSE: To elongate use life of a pump by inserting a sealed flexible bag in a pump body, dividing the pump body into two chambers, arranging intake duct and delivery duct for abrasive liquid in the first chamber and containing such non-abrasive liquid as water, oil in the second chamber.

CONSTITUTION: In a pump body 10 equipped with intake duct 11 and delivery duct 12 for abrasive liquid 13, the pump body is closed by a cover 14 having a center bore through which a charge piston 15 passes, an outer rim 16 of a sealed flexible bag 20 is arranged between the cover 14 and upper rim of the pump body 10. Inner space of the pump body 10 is divided into two chambers by the bag 20, the outer chamber 21 receives abrasive liquid 13 and the inner chamber 22 contains such non-abrasive liquid 23 as water or oils. And a tank 26 receiving a part of the liquid 23 as the same as that contained in the inner chamber 22 is formed by a cylindrical wall 25 mounted on upper part of the rim of the pump body 10.

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Abstract Text - FPAR (1):

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Abstract Text - FPAR (2):

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pump body 10. Inner space of the pump body 10 is divided into two chambers by the bag 20, the outer chamber 21 receives abrasive liquid 13 and the inner chamber 22 contains such non-abrasive liquid 23 as water or oils. And a tank 26 receiving a part of the liquid 23 as the same as that contained in the inner chamber 22 is formed by a cylindrical wall 25 mounted on upper part of the rim of the pump body 10.